Kristianstad University

PROJECT
WORK REPORT

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PROGRAM: <TBSE2, 2020>

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KRISITANSTAD
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TABLE OF CONTENTS

1. DESCRIPTION OF DATABASE

- I have created an E-Commerce database. E-Commerce is when a consumer usually buys or sells a product usually over the internet. This database stores information about things such as customer data, the orders, products ordered and the shipping details.

- I have five tables in this Database which are as follows:

  Shipping_details
  Orders
  Customer
  Product
  Orders_has_product

- The following tables have these attributes

  Shipping_details:

  - Shippingdetails_id INT (PK)
  - Description VARCHAR(45)
  - Shipping_status VARCHAR(45)
  - Address VARCHAR(45)
  - ORDER_ORDER_ID INT (FK)

  Orders:

  - Order_id INT (PK)
  - Order_type VARCHAR(45)
  - Order_date DATE
  - Price INT
  - Customer_customer_id (FK)

  Customer:

  - Customer_id INT (PK)
  - Customer_name VARCHAR(45)
  - Email_address VARCHAR(45)
  - Phone_number INT

  Product:

  - Product_id INT (PK)
  - Name VARCHAR(45)
  - Quantity INT
  - Weight INT
  - Orders_order_id INT

Orders_has_product:

- Orders_order_id INT
- Product_product_id INT

- I have one to one, one to many and many to many relationships between tables in my database.
    - One to one – Shipping Details and Orders

      It is one to one because every single order will have the same shipping details. If one customer has an order containing 5 products. That whole order will have the same shipping details.

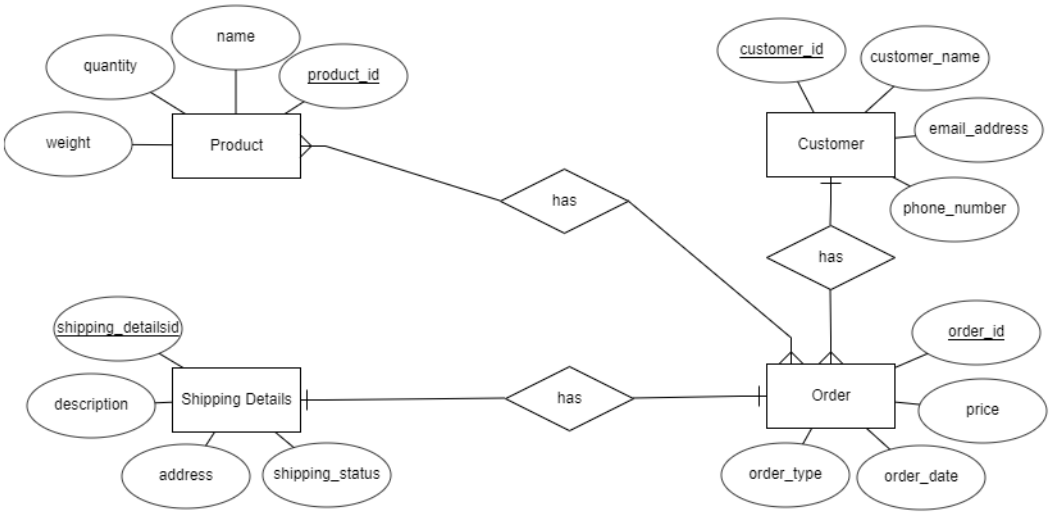
    - One to many – Customer and Orders

      This is one to many since one customer can place multiple orders.

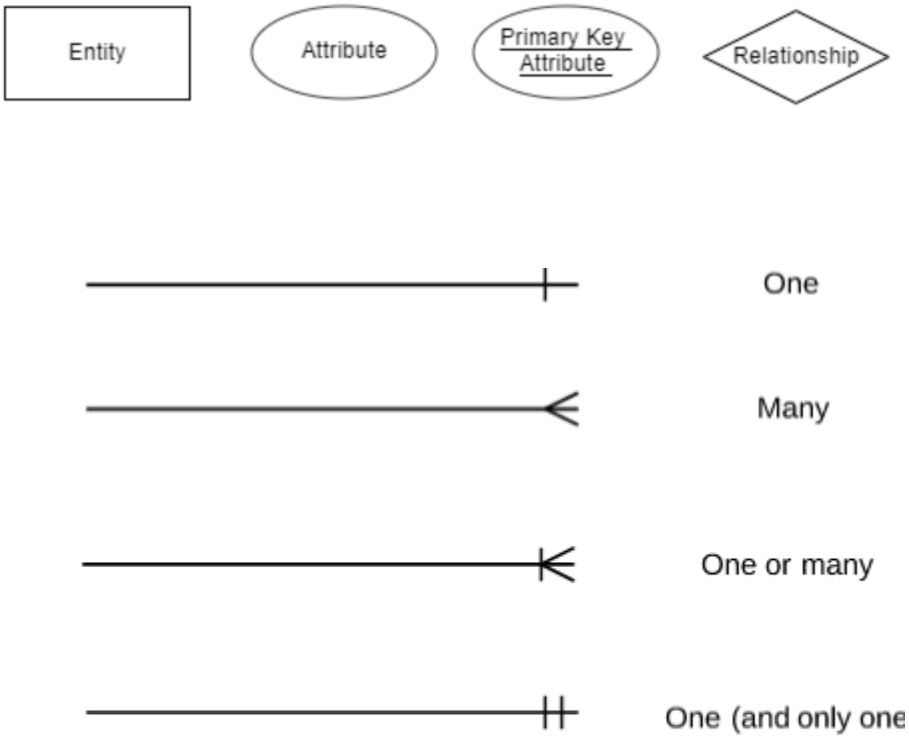
    - Many to many – Product and Orders

      This is many to many as an order can have many products and many products can belong to one order.

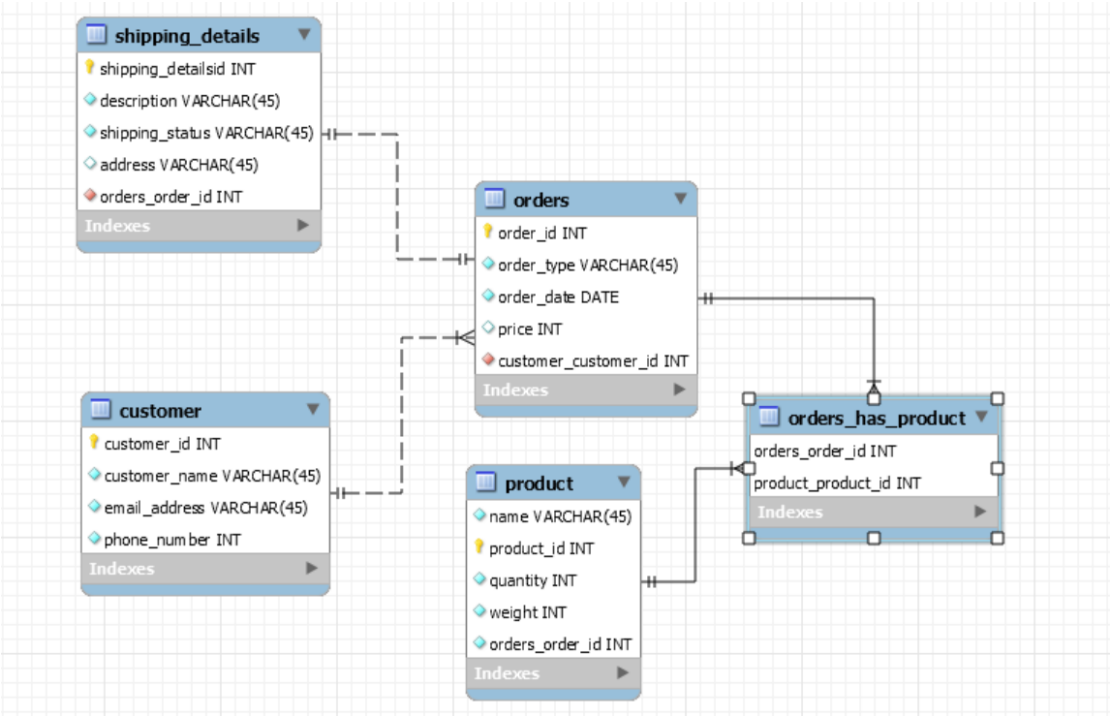
2. ER MODEL



LEGEND



3. IMPLEMENTATION DIAGRAM



4. EXAMPLE SQL STATEMENTS

SELECT

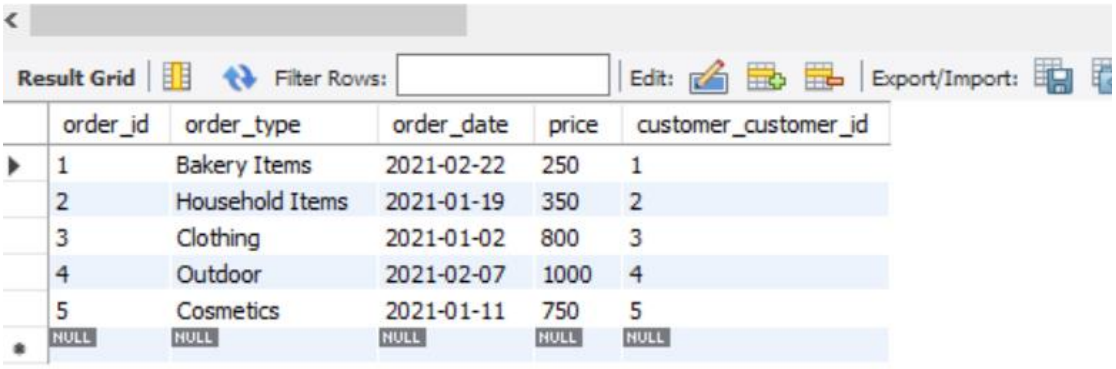
SELECT * FROM customer WHERE customer_name LIKE '%' ORDER BY customer_name ASC;

```
SELECT * FROM customer WHERE customer_name LIKE '%' ORDER BY customer_name ASC ;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content

customer_id	customer_name	email_address	phone_number
5	Ali Samow	Alisamow@hotmail.com	737963239
4	Fizza Zeeshan	Fizzazeeshan123@gmail.com	769232837
2	Julia Poulsen	Juliapoulsen@yahoo.com	764365378
1	Michael Roos	Michaelr@gmail.com	737386805
3	Musa Habeti	Musahabeti@gmail.com	739852838
NULL	NULL	NULL	NULL

SELECT * FROM orders;



order_id	order_type	order_date	price	customer_customer_id
1	Bakery Items	2021-02-22	250	1
2	Household Items	2021-01-19	350	2
3	Clothing	2021-01-02	800	3
4	Outdoor	2021-02-07	1000	4
5	Cosmetics	2021-01-11	750	5
NULL	NULL	NULL	NULL	NULL

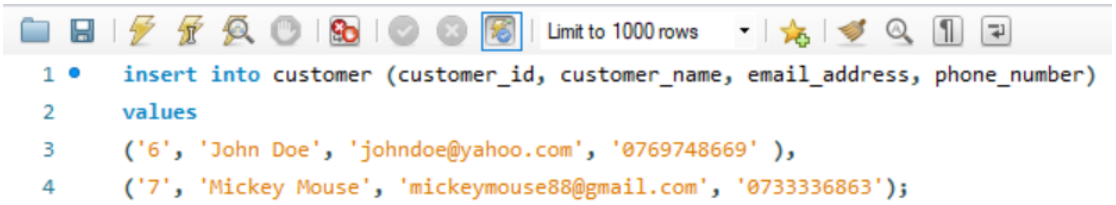
INSERT

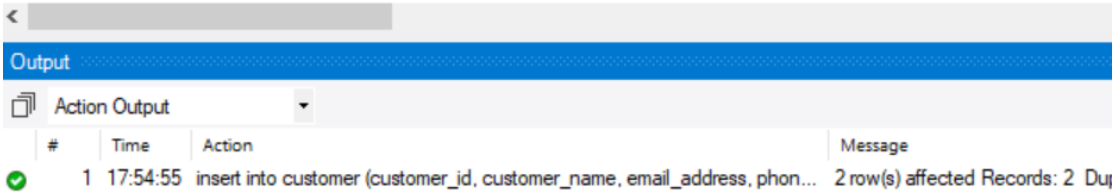
INSERT INTO customer (customer_id , customer_name , email_address, phone_number)

VALUES

('6' , 'John Doe' , 'johndoe@yahoo.com' , '0769748669'),

('7', 'Mickey Mouse' , 'mickeymouse88@gmail.com' , '0733336863');





```
1 •  SELECT * FROM ecommerce.customer;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Cont

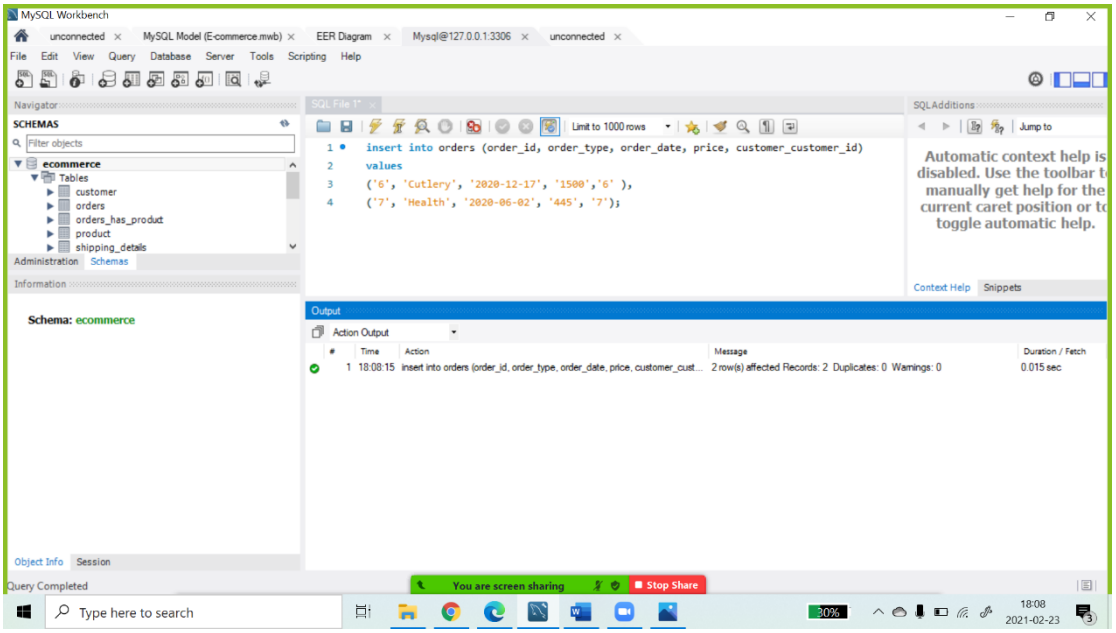
customer_id	customer_name	email_address	phone_number
1	Michael Roos	Michaelr@gmail.com	737386805
2	Julia Poulsen	Juliapoulsen@yahoo.com	764365378
3	Musa Habeti	Musahabeti@gmail.com	739852838
4	Fizza Zeeshan	Fizzazeeshan123@gmail.com	769232837
5	Ali Samow	Alisamow@hotmail.com	737963239
6	John Doe	johndoe@yahoo.com	769748669
7	Mickey Mouse	mickeymouse88@gmail.com	733336863
NULL	NULL	NULL	NULL

INSERT INTO orders (order_id , order_type , order_date, price, customer_customer_id)

VALUES

('6' , 'Cutlery' , '2020-12-17' , '1500', '6'),

('7', 'Health' , '2020-06-02' , '445', '7');



```
1 •   SELECT * FROM ecommerce.orders;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Ce

order_id	order_type	order_date	price	customer_customer_id
1	Bakery Items	2021-02-22	250	1
2	Household Items	2021-01-19	350	2
3	Clothing	2021-01-02	800	3
4	Outdoor	2021-02-07	1000	4
5	Cosmetics	2021-01-11	750	5
6	Cutlery	2020-12-17	1500	6
7	Health	2020-06-02	445	7
NULL	NULL	NULL	NULL	NULL

orders 1

Output

Action Output

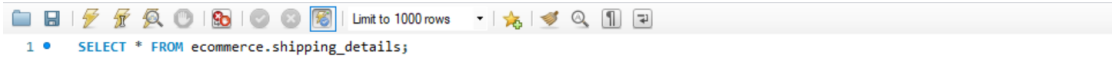
#	Time	Action	Message
1	18:08:15	insert into orders (order_id, order_type, order_date, price, customer_cu...	2 row(s) affected Records
2	18:08:27	SELECT * FROM ecommerce.orders LIMIT 0, 1000	7 row(s) returned

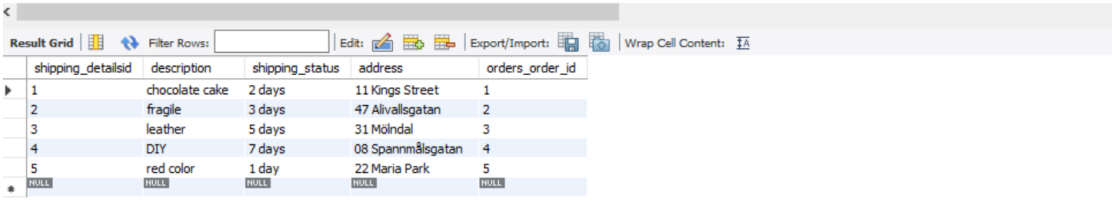
UPDATE

UPDATE shipping_details

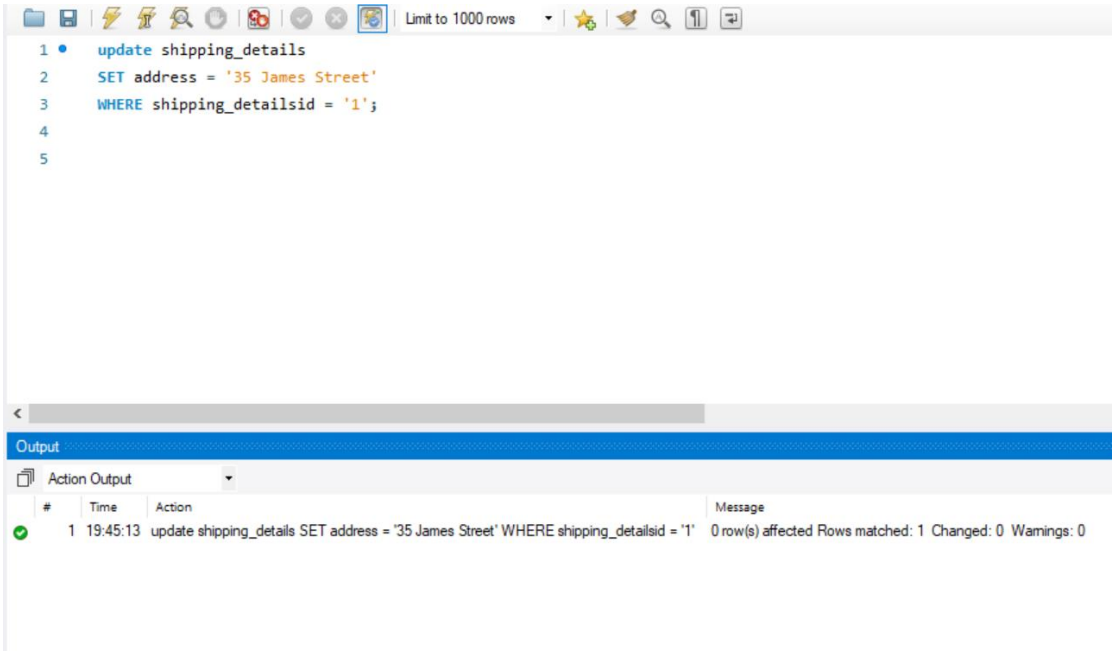
SET address = '35 James Street'

WHERE shipping_detailsid = '1';





shipping_detailsid	description	shipping_status	address	orders_order_id
1	chocolate cake	2 days	11 Kings Street	1
2	fragile	3 days	47 Alivallsgatan	2
3	leather	5 days	31 Mölndal	3
4	DIY	7 days	08 Spannmålsgatan	4
5	red color	1 day	22 Maria Park	5
NULL	NULL	NULL	NULL	NULL



```
1 •  SELECT * FROM ecommerce.shipping_details;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

shipping_detailsid	description	shipping_status	address	orders_order_id
1	chocolate cake	2 days	35 James Street	1
2	fragile	3 days	47 Alivallsgatan	2
3	leather	5 days	31 Mölndal	3
4	DIY	7 days	08 Spannmålsgatan	4
5	red color	1 day	22 Maria Park	5
NULL	NULL	NULL	NULL	NULL

pping_details 1

Output

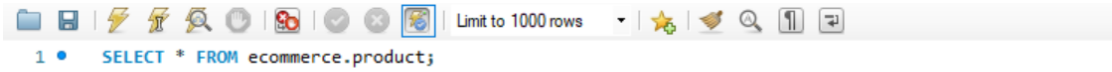
Action Output

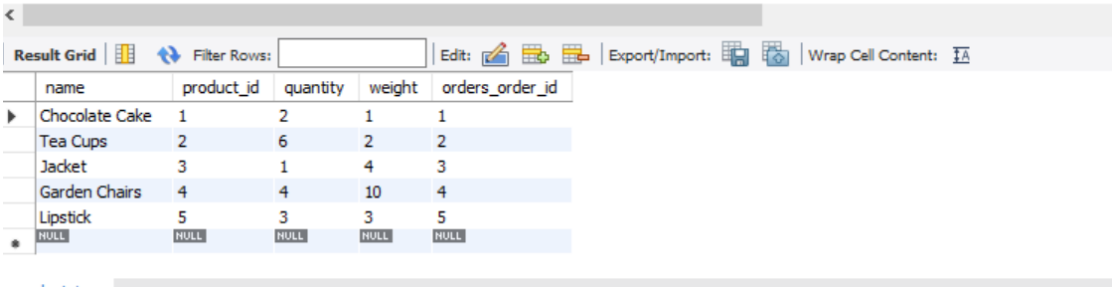
#	Time	Action	Message
1	19:45:13	update shipping_details SET address = '35 James Street' WHERE shipping_detailsid = ...	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
2	19:45:36	SELECT * FROM ecommerce.shipping_details LIMIT 0, 1000	5 row(s) returned

UPDATE product

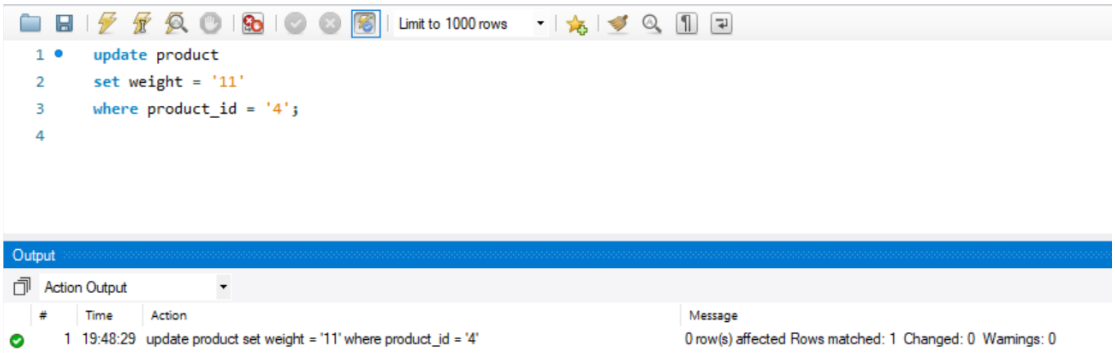
SET weight = '11'

WHERE product_id = '4';





name	product_id	quantity	weight	orders_order_id
Chocolate Cake	1	2	1	1
Tea Cups	2	6	2	2
Jacket	3	1	4	3
Garden Chairs	4	4	10	4
Lipstick	5	3	3	5
NULL	NULL	NULL	NULL	NULL



name	product_id	quantity	weight	orders_order_id
Chocolate Cake	1	2	1	1
Tea Cups	2	6	2	2
Jacket	3	1	4	3
Garden Chairs	4	4	11	4
Lipstick	5	3	3	5
NULL	NULL	NULL	NULL	NULL

product 1

Output

Action Output

#	Time	Action
1	19:48:29	update product set weight = '11' where product_id = '4'
2	19:48:41	SELECT * FROM ecommerce.product LIMIT 0, 1000
3	19:48:59	SELECT * FROM ecommerce.product LIMIT 0, 1000

DELETE

DELETE FROM shipping_details

WHERE description = 'DIY';

```
1 •  SELECT * FROM ecommerce.shipping_details;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

shipping_detailsid	description	shipping_status	address	orders_order_id
1	chocolate cake	2 days	35 James Street	1
2	fragile	3 days	47 Alivallsgatan	2
3	leather	5 days	31 Mölndal	3
4	DIY	7 days	08 Spannmålsgatan	4
5	red color	1 day	22 Maria Park	5
NULL	NULL	NULL	NULL	NULL

```
SELECT * FROM ecommerce.shipping_details;
```

shipping_detailsid	description	shipping_status	address	orders_order_id
1	chocolate cake	2 days	35 James Street	1
2	fragile	3 days	47 Alivallsgatan	2
3	leather	5 days	31 Mölndal	3
5	red color	1 day	22 Maria Park	5

#	Time	Action	Message	Duration / F
1	20:14:27	DELETE FROM shipping_details WHERE description = 'DIY'	0 row(s) affected	0.000 sec
2	20:14:39	SELECT * FROM ecommerce.shipping_details LIMIT 0, 1000	4 row(s) returned	0.000 sec /

```
DELETE FROM shipping_details
WHERE description = 'DIY';
```

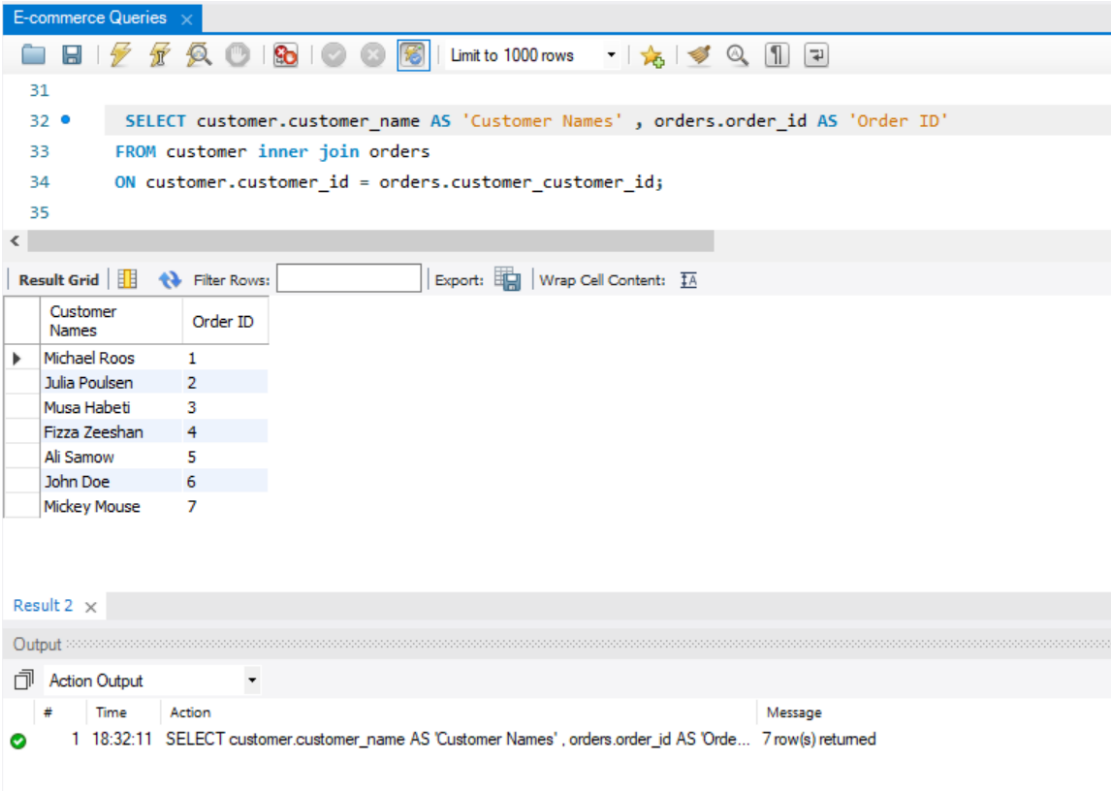
#	Time	Action	Message
1	20:14:27	DELETE FROM shipping_details WHERE description = 'DIY'	0 row(s) affected

BASIC/INNER JOINS

SELECT customer.customer_name AS 'Customer Names' , orders.order_id AS 'Order ID'

FROM customer inner join orders

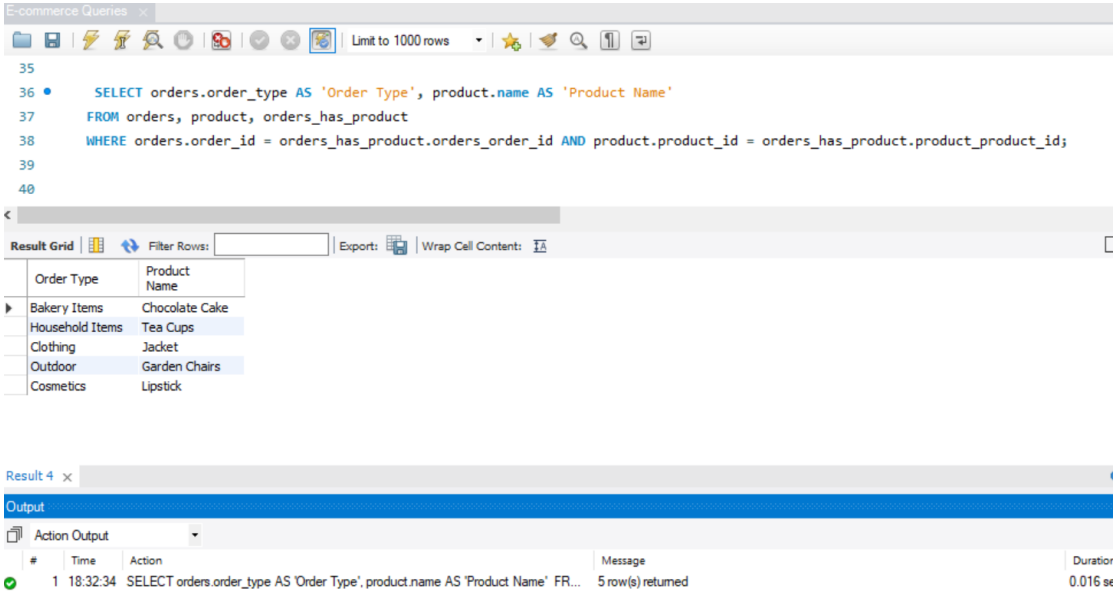
ON customer.customer_id = orders.customer_customer_id;



SELECT orders.order_type AS 'Order Type', product.name AS 'Product Name'

FROM orders, product, orders_has_product

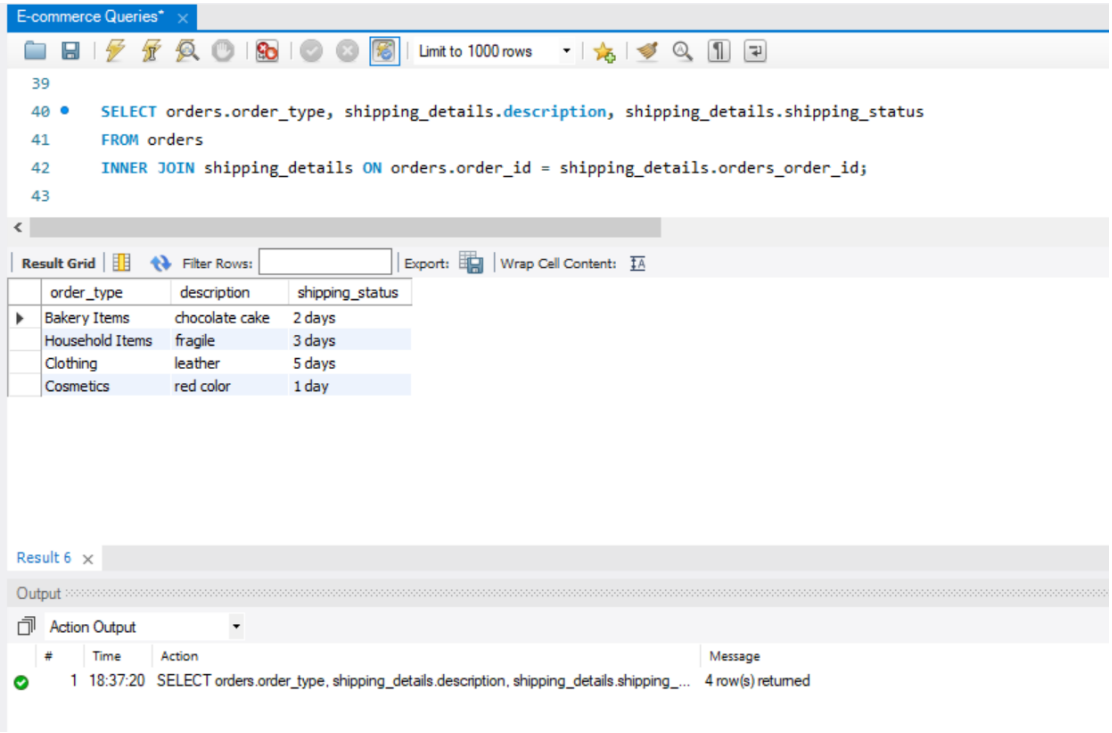
WHERE orders.order_id = orders_has_product.orders_order_id AND product.product_id = orders_has_product.product_product_id;



SELECT orders.order_type, shipping_details.description, shipping_details.shipping_status

FROM orders

INNER JOIN shipping_details ON orders.order_id = shipping_details.orders_order_id;



5. CONCLUSION

I have created an E-commerce database for this project which contains several different relationships, attributes, entities, and different keys.

Overall, the project was good. I did not find any difficulty in making ER, EER diagrams or in writing queries.

6. REFERENCES

I created the ER diagram on this website.

(2015)

7. APPENDIX